

## SPECIFICATION

## Methanol

for the Japanese Pharmacopoeia General Tests (for Liquid Chromatography)

REQUIREMENT	SPECIFICATION
Description (JP method)	Colorless clear liquid
Absorbance (210nm) (JP method)	max.0.70
Absorbance (220nm) (JP method)	max.0.30
Absorbance (230nm) (JP method)	max.0.15
Absorbance (240nm) (JP method)	max.0.07
Absorbance (254nm) (JP method)	max.0.02
Description (USP-NF method)	Clear, colorless liquid
Assay (USP-NF method)	min.99.8%
Substances darkened by sulfuric acid (USP-NF method)	passes test
Substances reducing permanganate (USP-NF method)	passes test
Solubility in water (USP-NF method)	passes test
Color (APHA) (USP-NF method)	max.10
Water (H <sub>2</sub> O) (USP-NF method)	max.0.1%
Residue after evaporation (USP-NF method)	max.0.001%
Carbonyl compounds (USP-NF method)	max.0.001% each of acetone, formaldehyde, and acetaldehyde
Titration acid (USP-NF method)	max.0.0003meq/g
Titration base (USP-NF method)	max.0.0002meq/g
Absorbance (280~400nm) (USP-NF method)	max.0.01
Absorbance (260nm) (USP-NF method)	max.0.04
Absorbance (240nm) (USP-NF method)	max.0.10
Absorbance (230nm) (USP-NF method)	max.0.20
Absorbance (220nm) (USP-NF method)	max.0.40
Absorbance (210nm) (USP-NF method)	max.0.80
Absorbance (205nm) (USP-NF method)	max.1.00
Gradient elution (USP-NF method)	passes test
Description (EP method)	Clear, colourless liquid
Sp. Gr.(20/20°C) (EP method)	0.791~0.793
Absorbance (210nm) (EP method)	max.0.70
Absorbance (220nm) (EP method)	max.0.30

Absorbance (230nm) (EP method)	max.0.13
Absorbance (250nm) (EP method)	max.0.02
Absorbance (260nm) (EP method)	max.0.01
Content (EP method)	min.99.8%
Absorbance (225nm) (EP method)	max.0.17
Appearance	Colorless clear liquid
Density (20°C)	0.789~0.792g/mL
Refractive index 20°C	1.327~1.330
Absorbance (210nm)	max.0.60
Absorbance (220nm)	max.0.30
Absorbance (230nm)	max.0.15
Absorbance (240nm)	max.0.06
Absorbance (254nm)	max.0.015
Absorbance (260~400nm)	max.0.01
Water	max.0.05%
Residue after evaporation	max.5ppm
Acidity (as HCOOH)	max.0.001%
Peroxides (as H <sub>2</sub> O <sub>2</sub> )	max.5ppm
Fluorescence test	to pass test
Assay (capillary GC)	min.99.7%